

MM3458

2023/07/20

Outline

This IC is linear charge control IC for 1-cell Li-ion and Li-polymer battery.

This IC does not require externally provided sensing resistor or reverse-current protection diode, enabling reductions in the component count and the amount of generated heat.

This IC is battery temperature profile compliant, Function to limit charging current and voltage in low and high battery temperature ensures safety of battery.

Product Series

Linear Charger IC (Single function Type)

Features

1. Built-in Power MOSFET
2. Built-in reverse current protection
3. JEITA battery temperature profile compliant
4. Built-in thermal regulation function
5. Charge status flag (Nch open drain)
6. Space saving package (2.7mm x 2.5mm x 0.55mm)
7. Operating temperature range Ta=-40~85°C

Applications

Mobile device(Wearable device, healthcare device, others)

Major Specification

Parameter	Specifications	Unit
Rating voltage (VIN)	6	V
Operating voltage range (VIN)	4.0~6.0	V
Charge voltage	4.2	V
Fast charge current	1500	mA
Pre charge current	Fast charge current x0.1	mA
Fast charge starting voltage	3	V
Full charge current	Fast charge current x0.1	mA
BAT leakage current (max.)	2	μA
Thermal regulation temperature	93	°C
Charge timer	Pre:1, Fast:5	Hour

Package

SSON-10A